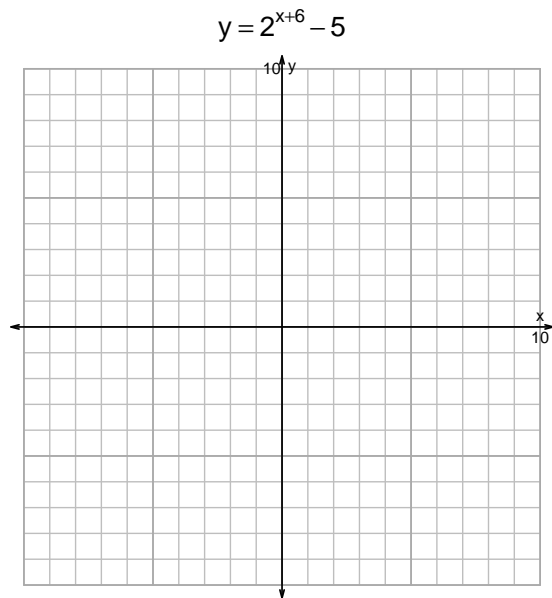
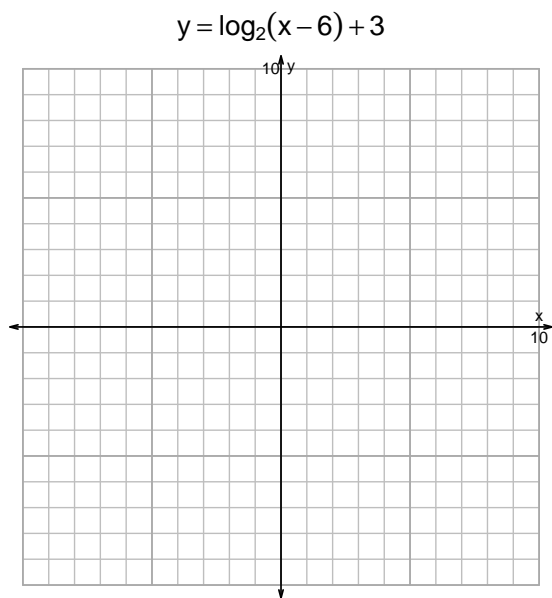


Name: \_\_\_\_\_

Date: \_\_\_\_\_

s18QUIZ: EXP LOG (QUIZ v232)

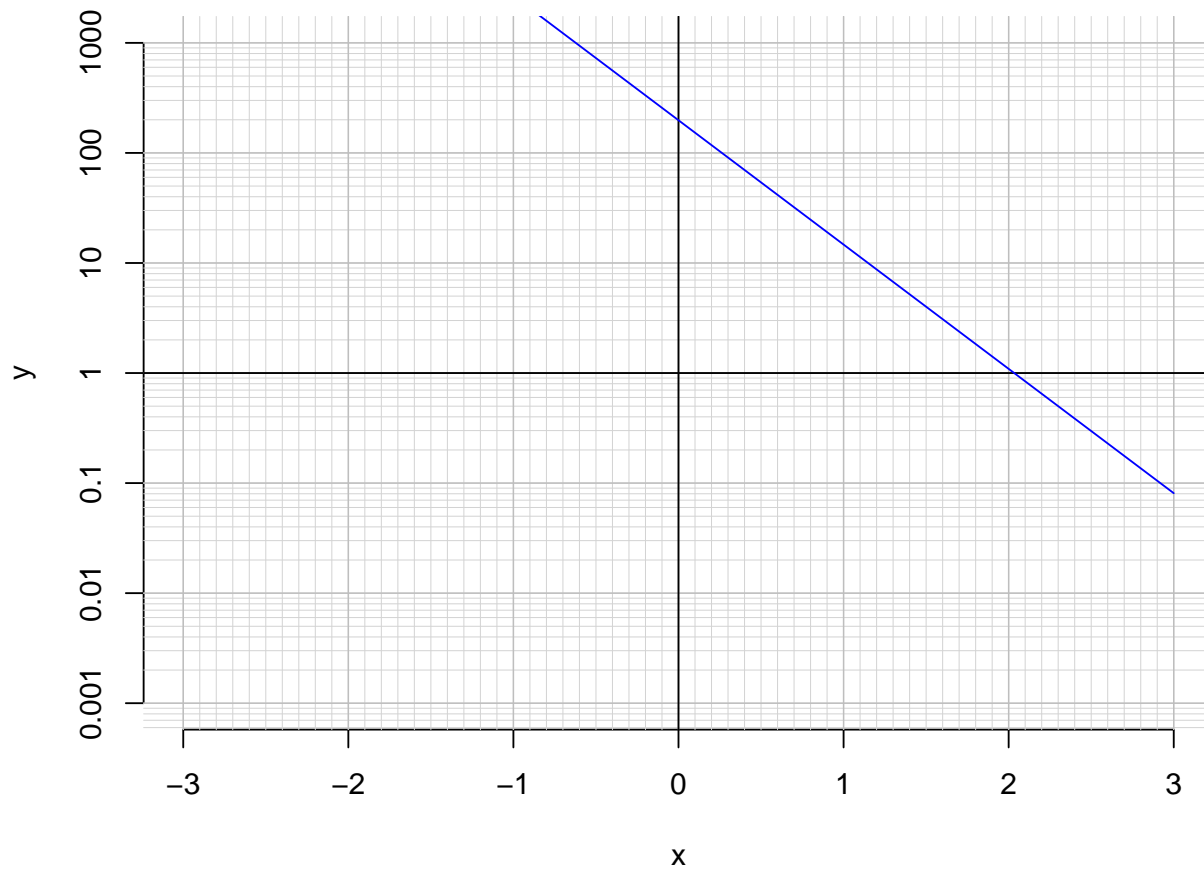
1. Graph  $y = \log_2(x - 6) + 3$  and  $y = 2^{x+6} - 5$  on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-11 = \left(\frac{-3}{5}\right) \cdot 10^{-7t/4}$$

3. An exponential function  $f(x) = 198 \cdot e^{-2.6x}$  is graphed below on a semi-log plot.



- a. Using the plot above, evaluate  $f(2.3)$ .
- b. Express  $f^{-1}(x)$ , the inverse of  $f$ .
- c. Using the plot above, evaluate  $f^{-1}(70)$ .